

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P580554

Luminaire Tested: **HCC4S40D010BZ-HM43040827-41PSMDW**

Issue Date: 9/9/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P580554  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC4S40D010BZ-HM43040827-41PSMDW  
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

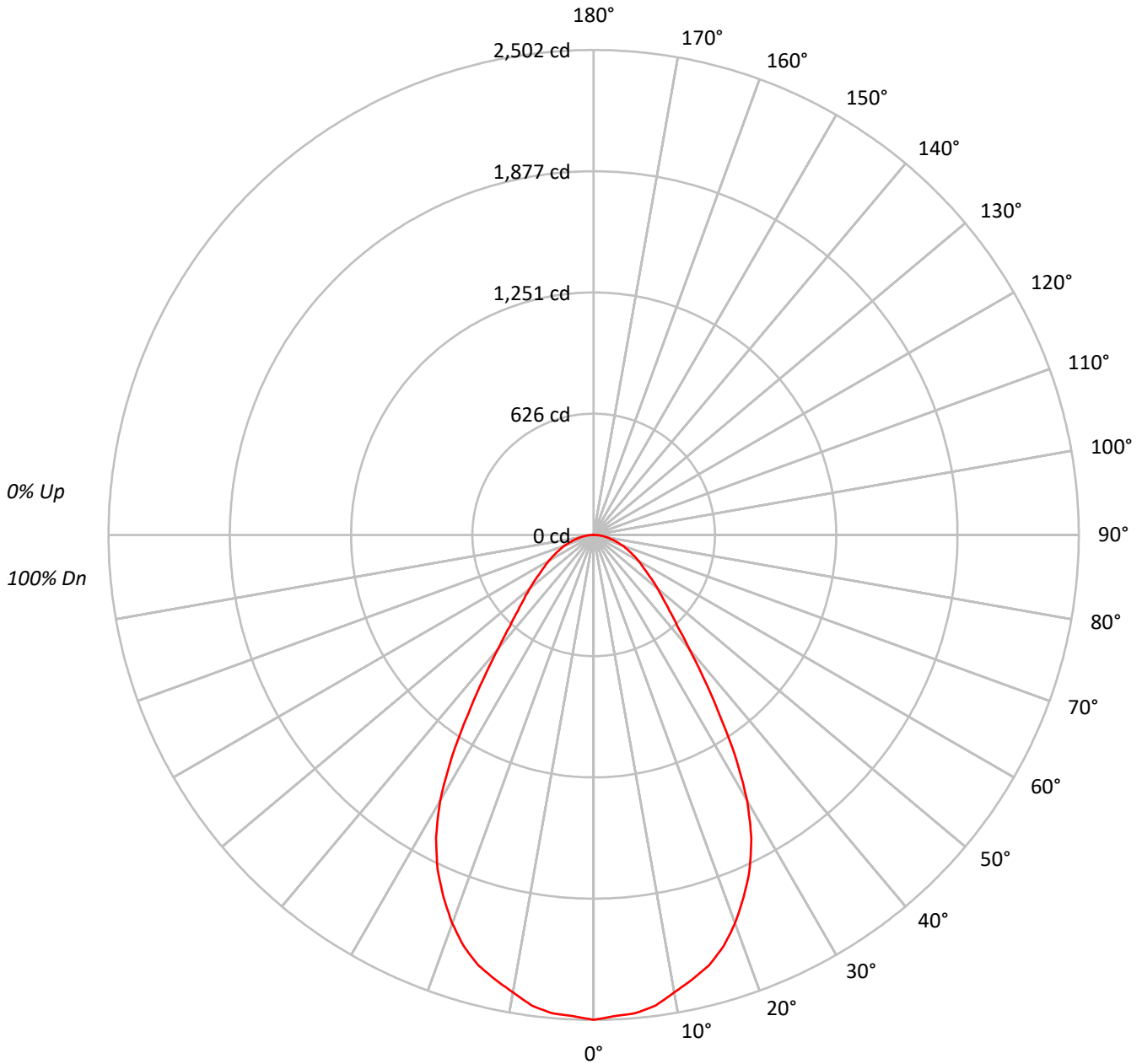
Lumens per Lamp: N/A  
Luminaire Lumens: 3552.7 lumens  
Efficiency: N/A  
Efficacy: 86.7 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 41  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P580554  
CATALOG NUMBER: HCC4S40D010BZ-HM43040827-41PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P580554

CATALOG NUMBER: HCC4S40D010BZ-HM43040827-41PSMDW

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	308586
5°	306657
10°	300145
15°	293498
20°	279929
25°	259128
30°	225391
35°	170197
40°	123355
45°	96411
50°	82437
55°	71309
60°	65669
65°	60094
70°	56151
75°	51517
80°	48160
85°	46137



TEST NUMBER: P580554  
 CATALOG NUMBER: HCC4S40D010BZ-HM43040827-41PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.9	6.6
10°-20°	643.8	18.1
20°-30°	865.7	24.4
30°-40°	711.8	20.0
40°-50°	437.2	12.3
50°-60°	302.5	8.5
60°-70°	206.2	5.8
70°-80°	114.9	3.2
80°-90°	36.5	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1743.5	49.1
0°-40°	2455.3	69.1
0°-60°	3195.0	89.9
0°-90°	3552.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3552.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2502	
5°	2477	234
15°	2298	644
25°	1904	866
35°	1130	712
45°	553	437
55°	332	303
65°	206	206
75°	108	115
85°	33	37
90°	0	



TEST NUMBER: P580554

CATALOG NUMBER: HCC4S40D010BZ-HM43040827-41PSMDW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2501.8
2.5°	2484.2
5°	2476.7
7.5°	2449.0
10°	2396.4
12.5°	2348.6
15°	2298.4
17.5°	2225.5
20°	2132.6
22.5°	2022.1
25°	1904.0
27.5°	1760.9
30°	1582.5
32.5°	1363.9
35°	1130.3
37.5°	929.4
40°	766.1
42.5°	640.5
45°	552.7
47.5°	484.8
50°	429.6
52.5°	379.3
55°	331.6
57.5°	296.4
60°	266.2
62.5°	236.1
65°	205.9
67.5°	180.8
70°	155.7
72.5°	130.6
75°	108.1
77.5°	85.4
80°	67.8
82.5°	50.2
85°	32.6
87.5°	17.6
90°	0.0

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Classified  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)